

YASKAWA

VIPA MICRO

The compact, fast small control system



Modern, compact and fast

CPU FACTS

- PROFINET IO-Controller and I-Device
- Integrated web server for device diagnosis and web visualisation
- Ethernet PG/OP channel for active and passive communication
- 16 digital inputs, DC 24V with integrated status display
- 12 digital outputs, DC 24V 0.5A with integrated status display
- 2 analogue inputs 0V ... +10V, 12Bit
- 4 channels for counters, frequency measurement and 2 channels for pulse width modulation
- 64 Kbytes integrated working memory, extended up to 128 Kbytes
- I/O address range, digital/analogue 2048 bytes
- 512 timer/meter, 8192 bit memory bytes
- Low dissipation power, max. 7W
- External memory ability with SD card (up to 2GB)
- Programmable via VIPA SPEED7 Studio, Siemens SIMATIC Manager or Siemens TIA Portal



10-100x faster than traditional controls

Removable plug with push-in technology for installation without tools

Up to 8 modules can be added

Permanent memory and SD card as external storage option

2-way switch for PROFINET and active Ethernet connection

Extremely compact design

Much faster backplane bus



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MICRO EXPANSIONS

2xRS485 expansion module

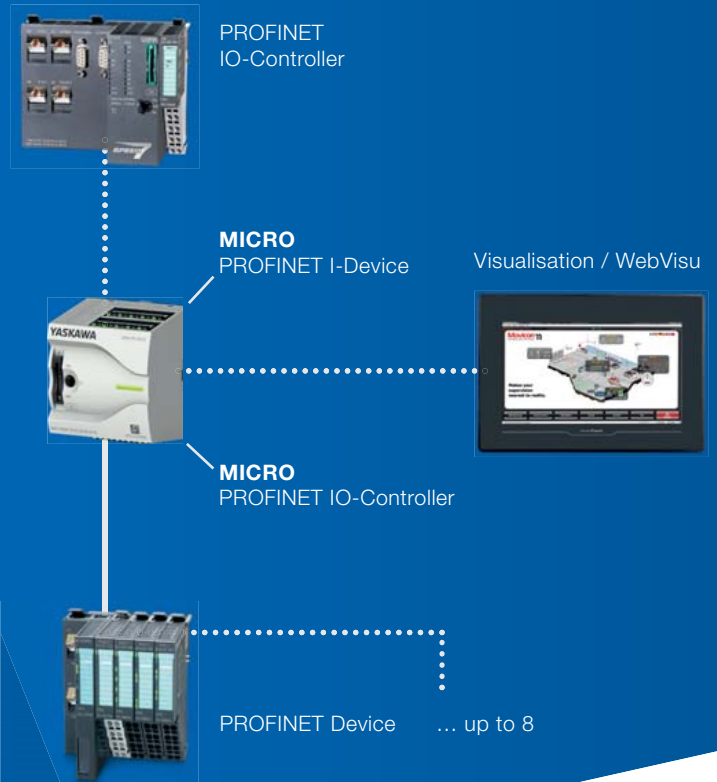
- 2x serial interfaces (RS485/RS422, MPI, Modbus)
- PROFIBUS-DP-Slave can be activated with VIPA Set Card

Up to 8 periphery modules

- Digital input module
- Digital output module
- Analogue input module
- Analogue output module

Power supply

- AC 120 ... 240V / DC 24V, 1.5A



The MICRO system

A combination of high functionality and excellent performance in a very small size offers new opportunities to optimise processes and increase performance. Even in the smallest equipment and machines.



The MICRO PLC is the introduction of a new control concept. The MICRO PLC is not only small, compact and high-performance in communication; it also offers additional benefits to users.

Just two examples: a removable plug which simplifies pre-wiring and installation, as well as channel-specific LEDs which are attached directly to each contact. Clear and modern design together in the new MICRO PLC with the latest technology and user-friendly features.

Setting and programming the MICRO small controller system is done as with SLIO using SPEED7 Studio, Siemens SIMATIC Manager or Siemens TIA Portal. This ensures that existing S7 know-how can continue to be used for programming.

The MICRO small controller as a PROFINET controller can be extended by up to eight PROFINET devices. The SLIO I/O system is available, for example, as a PROFINET device. The PROFINET I-Device function makes it possible for you to couple the MICRO to a PROFINET master.

The MICRO PLC provides maximum performance in the smallest space in the control cabinet. Its minimal size allows brand new planning designs for various user applications.

The current versions of MICRO PLC are equipped with an integrated web server, which allows any access to data, diagnoses, and status screens as well as visualisation projects via smart phone, laptop, etc..



In addition to standard Ethernet protocols, such as Modbus TCP or S7 communication, MICRO also speaks PROFINET. Thus you can simply connect up to eight PROFINET devices and/or integrate the MICRO as an I-Device in PROFINET topologies.



Available components



Mains power supply
M07-2BA00
 Input AC 120 ... 240V
 Output 24V DC, 1.5A



CPU M13C
M13-CCF0000
 PROFINET Controller



RS485 Extension
M09-0CB00
 2x Serial RS485/RS422,
 MPI, Modbus
 PROFIBUS-DP-Slave



Digital Output
M22-1BH00
 16x DO
 DC 24V, 0.5A
M22-1HF10
 8x DO
 AC 230V, 2A Relays

Digital Input
M21-1BH00

16x DI
 DC 24V

Digital Input/Output

M23-1BH00
 8x DI + 8x DO
 DC 24V, 0.5A

Analogue Input

M31-1CD50
 4x AI, 16Bit
 0 ... 10V + -10V

Analogue Output

M32-1BD70
 4x AO, 12Bit
 0 ... 10V + -10V

M32-1BD40
 4x AO, 12Bit
 0/4 ... 20mA

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